

COLPRO 02

The Improvements in NBC Collective Protection against Warfare and Terror in Israel Based on the Last 12 Years Experience

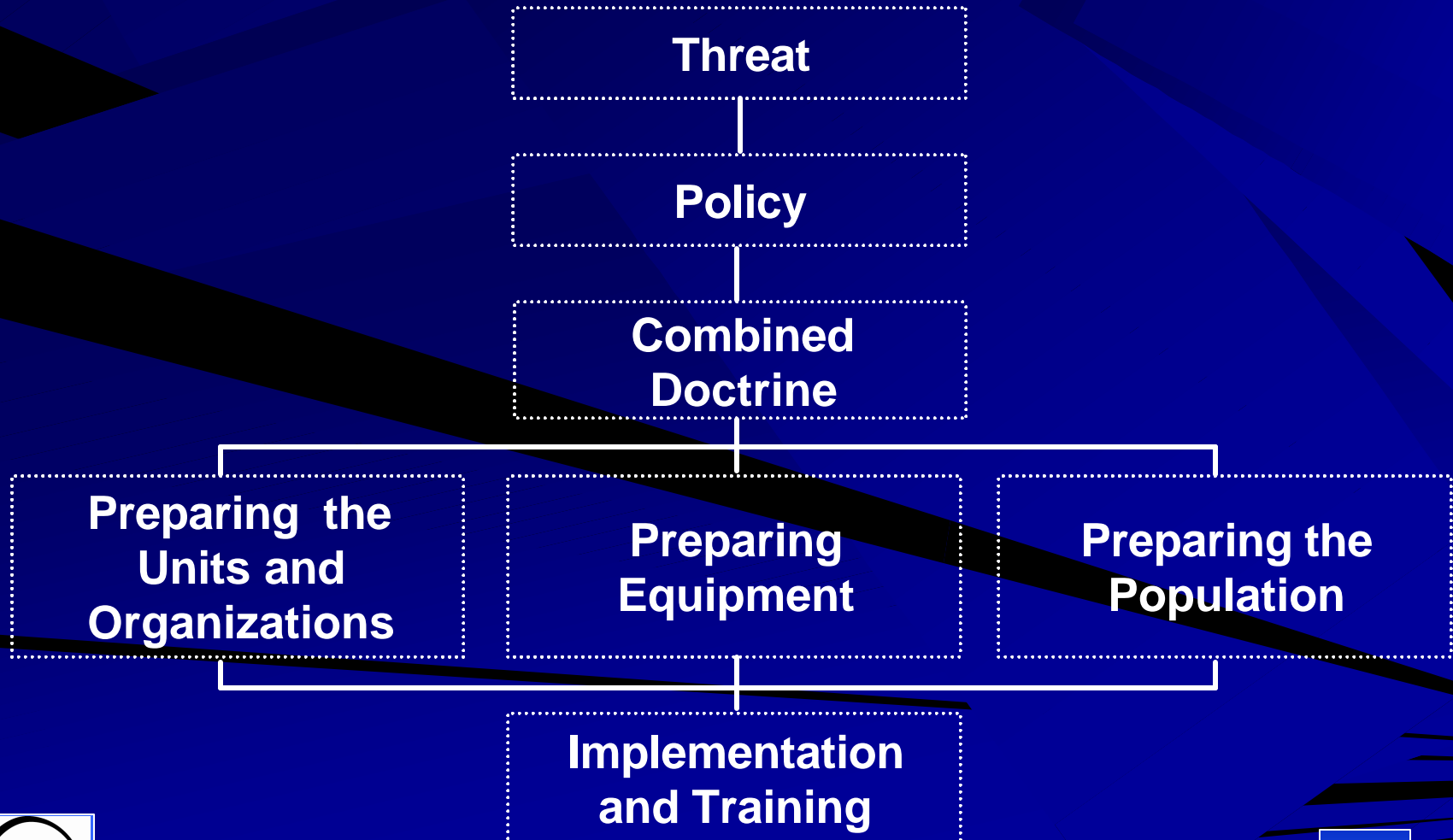
Presented by

M.Gen. Arad (IDF ret)

Former Commander of HFC



Response building process





The Threats on Israel

- The threat until the Gulf War.+
- The threat since the Gulf War
- The evolvement of threats in the future
- Other threats
- Chem.-Bio terror events



The Response

Policy:

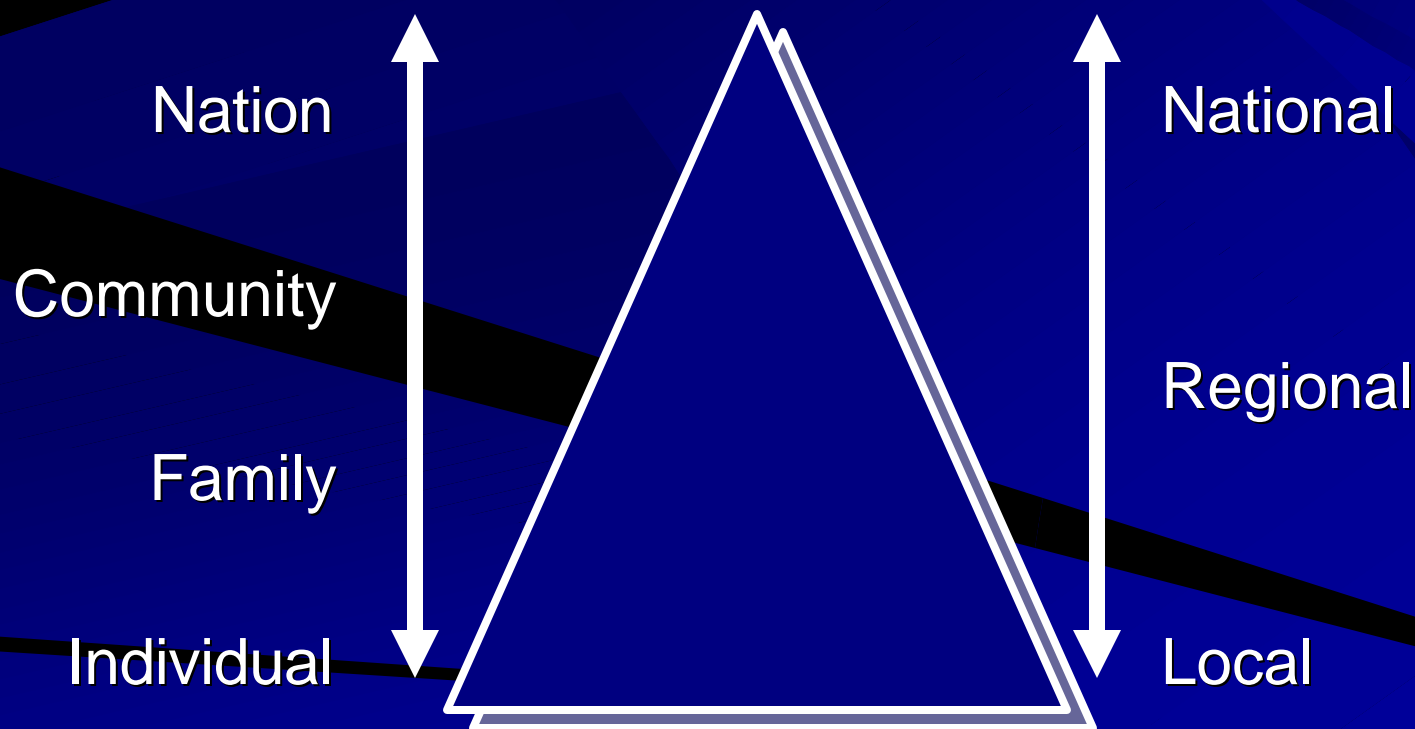
- Building the **Home Front Command**
- Establishing **National Policy** for response and preparedness
- Define the **leading organizations** and its responsibilities
- Establishing the **Combined Doctrine**
- Rules and Regulations



Level of comprehensive Solution

Population level

Organization level





HFC - HQ & Units

Establishing the units and organizations according to the policy, scenario definition and the Combined Doctrine

- **HFC HQ**
- **Districts HQ**
- **Search & Rescue units**
- **Chem. Bio units**
- **Medical units**
- **Security units**



Emergency Organizations

The main organizations:

- HFC
- Police
- MDA (EMS)
- Hospitals
- Fire Fighters
- “MELACH”



Threat

- The true ability to create WMD terror activities
- The influence
- The agents
- The enemy's targets

By intelligence agencies



Policy

Scenario Definition

- Balancing between the threat, result and costs
- Event evolvment
- The expected casualties – to be prepared for

Strategy Planning Department - IDF



Policy continue...

Scenario Definition

- Leading organization

HFC & Police

- Public awareness and involvement in the early preparedness

Mask & medication distribution

Guidance to the population

- Budget Allocation



Combined Doctrine

■ Establishing the Combined Doctrine – by the leading organizations:

- Defining the basic principles
- Defining participant's tasks and schedule
- CCC rules
- Population involvement
- Setting qualifications' measures



Preparing Units continue...

■ Chemical event — mainly:

First responders and hospitals

local units: Short time for response

Biological event — mainly:

Medical units and hospitals

Large forces

-local / State / Federal — extended

activities

■ Distribute medications and vaccines



Example: Medical Response

- **EMS – Organize the EMS according to the Scenario Definition and schedule**

Protection kits in ambulances

- **Hospitals – receiving mass injured according to measures and schedule**

Surprise training in hospitals



Medical Response continue...

- **Complimentary response** – deploy field hospitals and quarantine the area.

HFC - IDF

- **Command and Control** – medical HQ will lead & guide the medical teams, arrange transportation, define priorities for evacuation

HFC + Ministry of Health



Medical Response continue...

- **Information centers** – gather and distribute to public information on casualties from hospitals

**In hospitals – and
in the municipality**

note:

***The medical units have a very important
role in the detection and
identification of agents!***



Preparing Equipment

Chemical

- Protection equipment for the first responders
- Medication (Atropine) – immediate availability – local level
- Preparation of decontamination systems.



Preparing Equipment cont.

■ Biological

- Establishing and operating a disease monitoring system and early identification
- Storage of medications and vaccines at the federal / state level
- Preparing the system and needed means to distribute the medications and vaccines to millions of persons.



Population

■ ***Early awareness of the population and***

■ ***Real time information***

are the main key to handle WMD event



Population continue...

- Building the trust of the population by giving information and instructions

Guidance, information and instruction

- Awareness campaign development

HFC broadcasting studio

- Partnering with the media

- Professional speakers

Chief of staff - HFC

- Information centers



Implementation and Training

Organizations and units

Annually unit training

Conducting combined “Table Top” exercises

Conducting field simulation training & exercises

Combined HQ and information system

Population

Cooperating the population in the units training.



Summary:

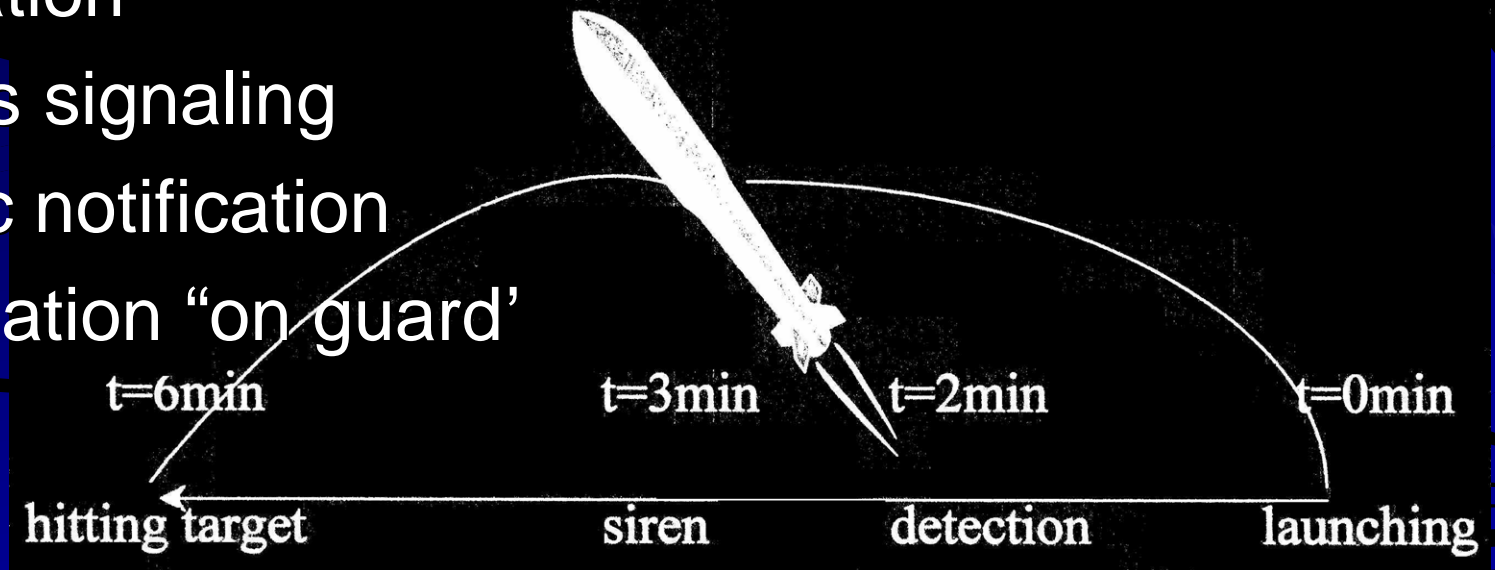
**Policy, Combined Doctrine and
Population awareness
= the key for building
the whole response**

**The existing organization can not be
tested, without establishing
“measures of qualification” that are
drawn from the policy (at any level).**



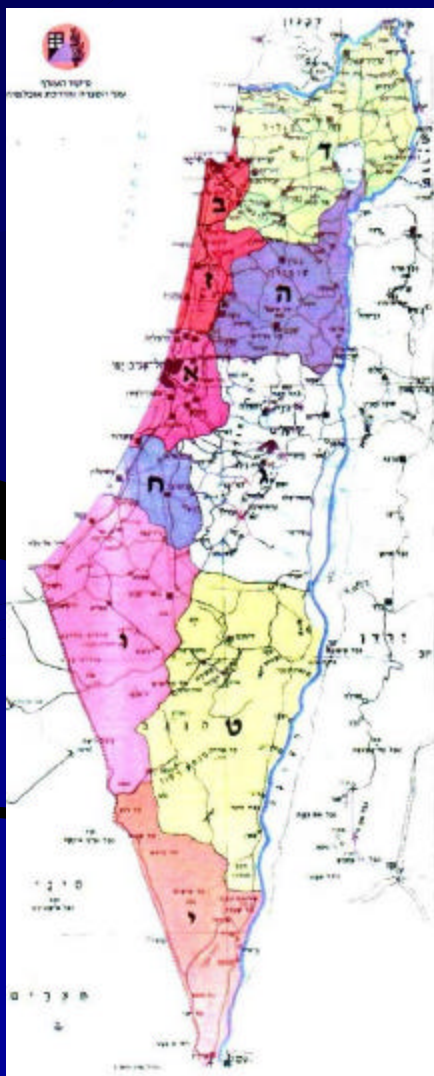
Alert system

- Threat detection
- Alert decision
- Siren system activation
- Sirens signaling
- Public notification
- Population “on guard”



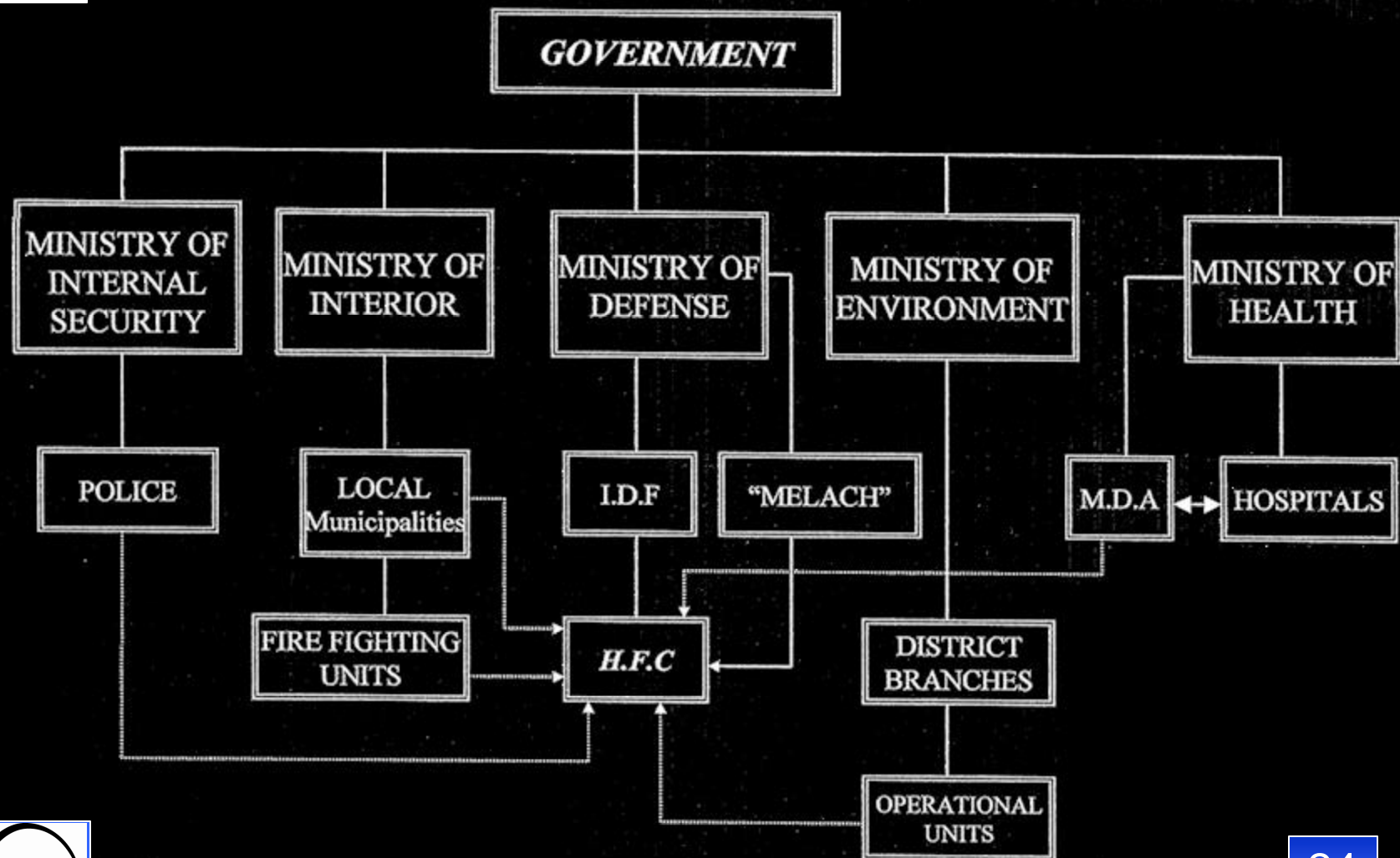


Alert system: Sirens





Israeli Structure for Emergency Response





Police Department.

- Command in the immediate response
- Opening roads for emergency and medical forces
- Isolating the affected area
- Securing the urban districts



M.D.A. (Israeli EMS)

- Joint units with the HFC
- Performing triage and providing medical first aid to casualties
- Transferring casualties to medical facilities
- Transferring patients between medical facilities



General Hospitals

- Receiving, sorting and managing casualties
- Decontaminating chemical casualties
- Providing definitive care for all kind of casualties
- Providing psychological and social support for casualties and their relatives
- Establishing information center for families

Area Code	Hospital Name	Number
02	Hadassa Ein Karem	02-6777 211
	Hadassa Ein Karem	02-6777 212
	Hadassa Ein Karem	02-5844 366
	Hadassa Ein Karem	02-5844 333
	Hadassa Ein Karem	02-5844 864
	Shearei Zedek	02-6555 508
	Shearei Zedek	02-6666 709
	Bikur Holim	02-6464 113
	Bikur Holim	02-6464 175
	Bikur Holim	02-6464 179
03	Belinson	03-9377 021
	Belinson	03-9377 022
	Belinson	03-9377 011
	Belinson	03-9377 234
	Belinson	03-9377 245
	Belinson	03-9377 270
	Shiba	03-5302 250
	Shiba	03-5302 251
	Shiba	03-5303 154
	Shiba	03-5302 204
08	Ichilov	03-6974 444
	Wolfsberg	03-5028 012
	Wolfsberg	03-5028 013
	Wolfsberg	03-5028 317
	Asaf Herodias	08-9779 911
	Kaplan	08-9441 267
	Kaplan	08-9441 399
	Kaplan	08-9441 200
	Kaplan	08-9441 430
	Bikur Holim	08-6741 116
08	Bikur Holim	08-6741 116
	Soroka	08-6400 345
	Soroka	08-6400 848

Area Code	Hospital Name	Number
04	Poria	04-6738 301
	Poria	04-6738 310
	Poria	04-6738 265
	Rivka Ziv	04-6828 836
	Rivka Ziv	04-6828 837
	Rivka Ziv	04-6828 838
	Rivka Ziv	04-6828 839
	Nahariya	04-9850 556
	Nahariya	04-9850 768
	Ha'emek	04-6494 220
04	Ha'emek	04-6494 356
	Ha'emek	04-6494 357
	Ha'emek	04-6494 298
	Ha'emek	04-6494 296
	Rambam	04-8542 753
	Rambam	04-8542 731
	Rambam	04-8542 214
	Rambam	04-8543 300
	Carmel	04-8250 333
	Bnei Zion	04-8359 310
04	Bnei Zion	04-8359 410
	Bnei Zion	04-8359 510
	Eilat Yafe	04-6304 271
	Eilat Yafe	04-6304 274
09	Laniado	09-8604 624
	Laniado	09-8604 630
	Laniado	09-8604 619



Fire Brigades

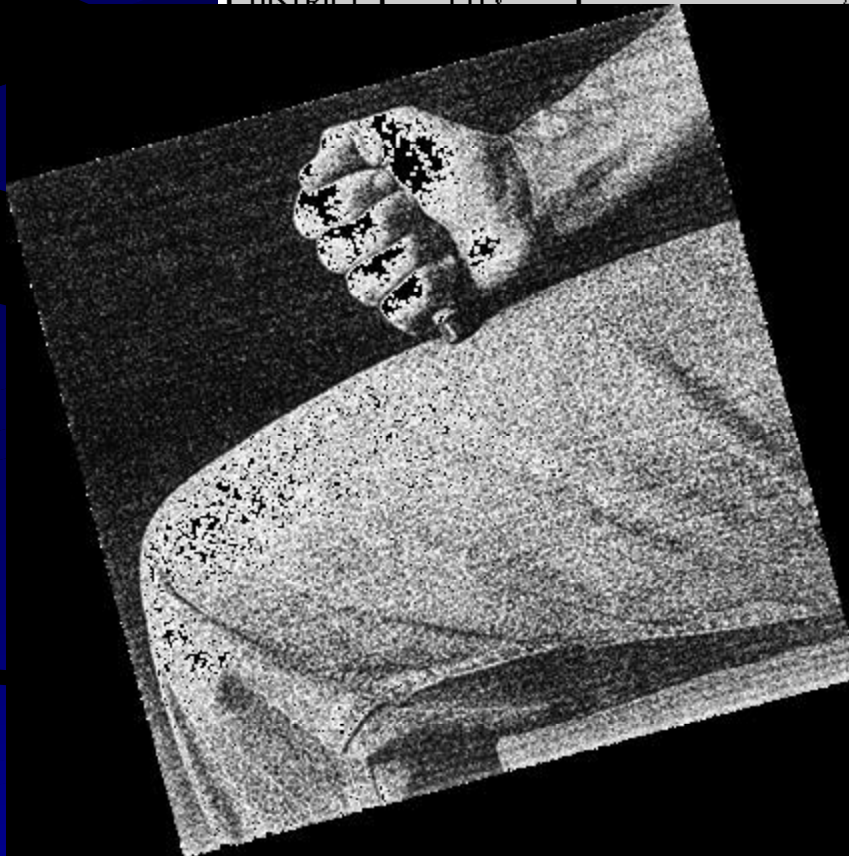
- The fire brigades are backed up by the HFC
- Initial search & rescue operations
- Collaboration in the joint command post
- Aiding decontamination actions



Protective Kit Distribution Centers

Station addresses for August 2002:

DISTRICT	CITY	ADDRESS	DATES
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South	Kiryat Malachi	Soldier's club, Zabolinski S	
	Lehavim	Youth club, Rimom Ave.	5/8-11/8
	Dimona	Gaon gym, Ha'melacha St.	14/8-31/8



“MELACH”

The National Emergency Economy Authority

Was established for the purpose of
planning emergency time economy in
peacetime and
implementation of plans during wars and
national emergency



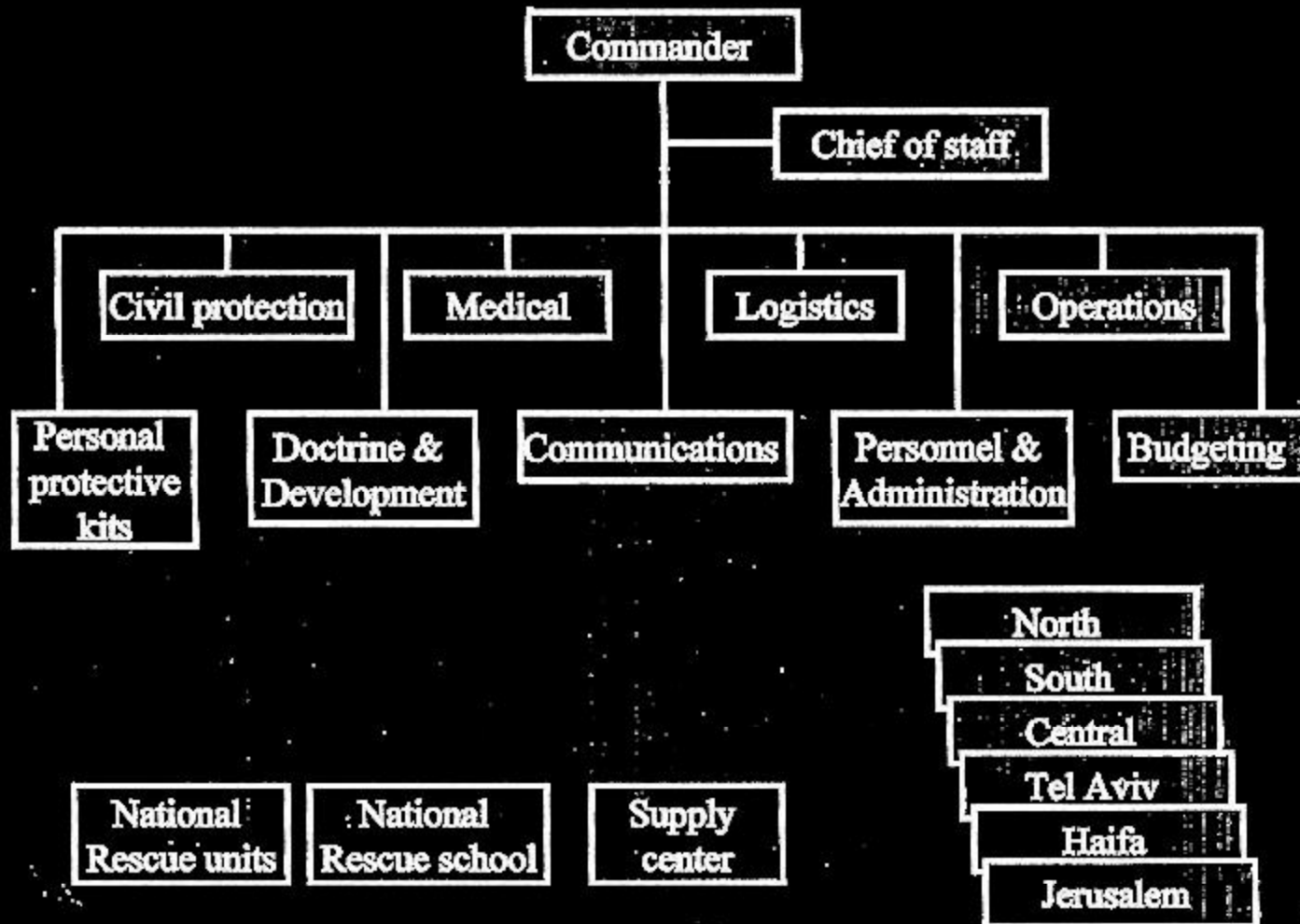
Home Front Command

- Implementing the civil protection and sheltering concept
- Command & Control - leading with the doctrine building at the national level
- Intelligence, warning and information
- Providing updated information and guidance to the civilian population
- Identifying the impact point
- Detecting CB weapons and deploying decontamination units
- Conducting search & rescue operations
- Treatment and evacuation of injured with EMS
- Assistance to hospitals
- Assistance to local authorities



Home Front Command

H.F.C. Structure





The Doctrine Main Principles

Stage 1 – Preparedness

Defining the combined doctrine.
Organizing and preparing the units
Preparing the population

Chemical Event:

Continues

Stage 2 – Event & immediate response

Sick/injured people are “falling” in the area
Automatic response by the first responders
Evacuating injured/sick to hospitals

Up to 2 hours

Stage 3 – Preliminary response

Continue evacuating injured
Treatment and decontamination at the hospitals
Isolating the area

Up to 5 hours

Stage 4 – Complimentary response

Decontaminating the area
Continue treatment for the injured in hospitals

Up to 12-24 hours



Individual Protection





Collective Protection “Mamad”





ColPro Example: Offices

Stock Exchange and other
buildings in Tel Aviv

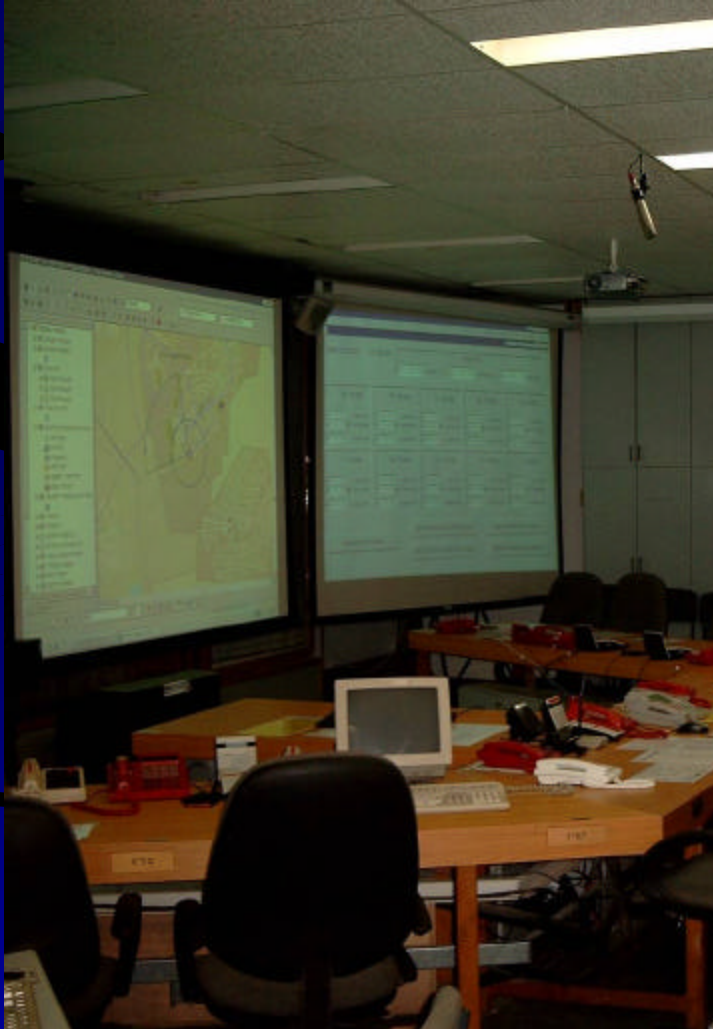


150 persons protected by each installed system



ColPro Example: Military

Home Front Command



150 Persons protected per system



ColPro Example: Hotel

2400 persons protected



The shelter complex is part of an underground car park.
(The turquoise indicated doors will just be closed in case of an NBC-threat)
The system has an airflow of $4 \times 3600 \text{ m}^3/\text{h}$.

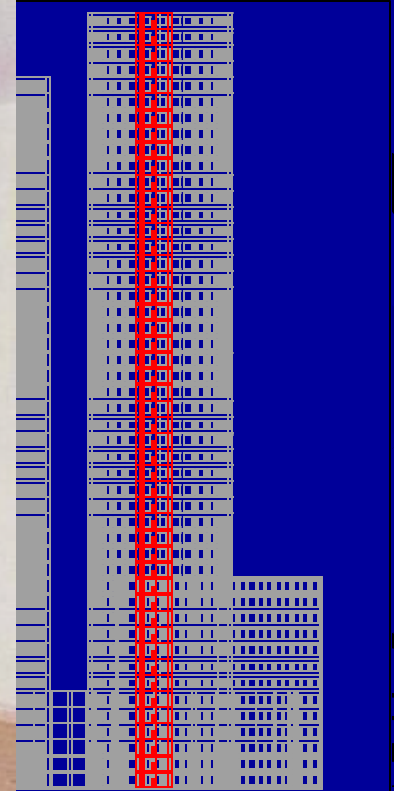
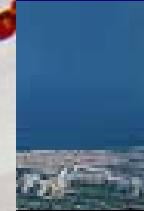


ColPro Example: Skyscraper

7000 persons protected by
101 systems

Exam

This figure
of the Protec
comparison
area. (Each
own Protec



More than 100 systems to supply 420m³/h of filtered air each



ColPro Example: EMS





ColPro Example: EMS

600 persons protected



Two stage airlock



Three stage airlock



Differential Pressure Gauge of Airlocks



ColPro Example: Hospital

Hospital “Western Galilee”
Naharia





ColPro Example: Hospital

Hospital "Western Galilee" Naharia



Several other filtration systems to supply more than
 $25000\text{m}^3/\text{h}$ of filtrated air = more than 4000 persons



ColPro Example: Old Hospital

Hospital “Meir” Kfar Saba



Airtight, blast resistant doors





ColPro: Standard Systems

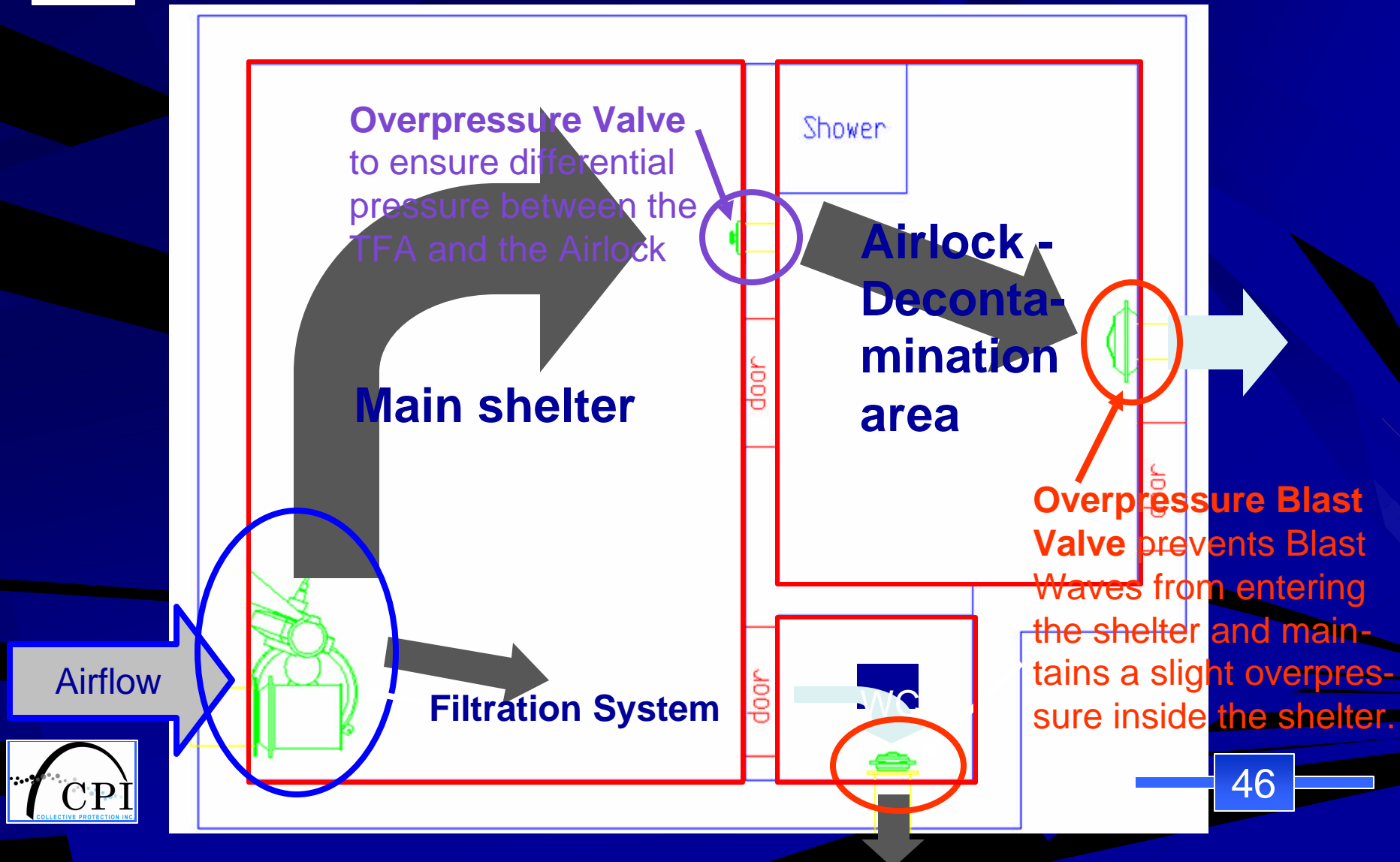
Off-the-shelf-systems with an airflow rate in Filtration Mode
from 36m³/h up to 600m³/h



Systems with bigger airflow rates
are assembled as required
from standard components
with various characteristics



ColPro: Standard Shelter





ColPro: Tents with internal Liners

Various sizes





ColPro Tent: Family Application

Up to 6 persons protected



ColPro: Military NBC-Systems

For airtight tents





ColPro Summary Israel

- 60% of the population protected by shelters or protected rooms
- Very short times to reach the shelter through obligatory Mamad in all new buildings
- Hospitals, Schools, Kindergarten and other institutions with disabled have NBC filtration
- 100% coverage with gas masks
- Awareness of the population
- Installed organizations and units with

Home Front Command

- *A really living combined doctrine*

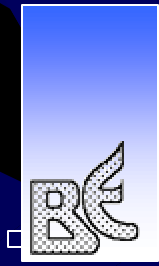
We are doing ...
our very best



Rescue Units

Hopefully ...
we will succeed!





COLPRO 02

Thank you!

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